"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, I.S.; SHERSHACHEVA, L.I.; IZRAILEVA, L.M.; SHPAGINA, M.K.

Drug resistance of dysentery bacilli. Antibiotiki 4 no.6:88-92 N-D '59. (MIRA 13:3)

1. Kuybyshevskiy institut epidemiologii, mikrobiologii i gigiyeny.
(SHIGELLA pharmacol.)
(ANTIBIOTICS pharmacol.)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Kh.G. [Zinov'ieva, Kh.H.]

Retention of properties by strain 28 (Azotobacter chroococcum) adapted to wheat. Mikrobiol.zhur. 21 no.2:15-19 '59. (MIRA 12:9)

1. Z Institutu mikrobiologii AN URSR.
(AZOTOBACTER)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, KH. G.

COUNTRY : USSR
CATEGORY : Soil Science. Organic Fertilizers.

J

ABS. JOUR. : RZhBiol., No. 23 1958, No. 104490

AUTHOR : Zinov'eva, Kh. G.
INST. :
TITLE : Increasing the Effectiveness of Azotobacterin

ORIG. PUB. : Kolgospnik Ukraini, 1957, No. 8, 22

ABSTRACT : No abstract.

Card: 1/1

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

RUBENCHIK, L.I.; BARSHOVA, O.I.; ZINOV'YEVA, Kh.G.

Interrelations between Azotobacter ans some soil bacteria. Report no.1. Mikrobiol.zhur. 9 no.4:3-10 '48. (MIRA 9:9)

1. Iz otdela pochvennykh mikroorganizmov (zav. otdelom - L.I.Rubenchik) Instituta mikrobiologii imeni akademika D.K.Zabolotnogo Akademii nauk USSR.

(AZOTOBACTER) (SOILS--BACTERIOLOGY)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

RUBENCHIK, L.I.; ZINOV'YEVA, Kh.G.

Formation of bios-type phytohormones in cultures of Azotobacter chroococcum. Report no.1. Mikrobiol. zhur. 9 no.4:11-16 '48. (MLRA 9:9)

1. Iz otdela pochvennykh mikroorganizmov (zav. otdelom - L.I.Rubenchik) Instituta mikrobiologii imeni akademika D.I.Zabolotnogo Akademii nauk USSR.

(AZOTOBACTER) (HORMONES (PLANTS))

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Kh. G.

RUBENCHIK, L. I., BERSHOVA, O. I. and ZINOV'YEVA, Kh. G. "The interrelationship between isotobacter and certain soil bacteria", (Report 2), Mikrobiol. zhurnal, Vol. X, No. 1, 1948, p. 3-10 (In Ukrainian, resume in Russian).

SO: U-3042, 11 March 53, (Letopis 'Zhurnal 'nykh Statey, No.7 1949).

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Kh. G.

RUBENCHIK, L. I. and ZINOV'YEVA, Kh. G. "The formation of phytohormones of the 'bios' type in cultures of Asotobacter chroococcum [sic]", (Report 2), Mikrobiol, zhurnal, Vol. X, No. 1, 1948, p. 11-17, (In Ukranian, resume in Russian).

SO: U-3042, 11 March 53, (Lopotis 'Zhurnal 'nykh Statey, No.7 1949).

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

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ZINOV'YEVA, KH. G.

Zinov'yeva, Kh. G. "The interrelationship between azotobacter and certain soil bacteria", (Report 3), Mikrobiol. zhurnal, Vol. XI, Issue 1, 1949, p. 8-18, (In Ukrainian, resume in Russian).

SO: U-4392, 19 August 53, (Letopis 'Zhurnal 'nykh Statey, No 21, 1949).

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Kh. G. and SAVCHENKO-BEL'SKAYA, O. T.

"Some Data on Indigenous Strains of Azotobacter", Mikrobiol Zhur, Vol. 11, Issue 3, pp 3-9, 1949.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Kh. G.

USSR/Biology (Agriculture) - Bacterial Fertilizers Feb 50

"Experiments on the Use of Azotogen in the Ukrainian SSR After World War II," L. I. Rubenchik, V. T. Smaliy, Kh. G. Zinov'yeva, O. I. Bershov, Div. of Soil Microorganisms, Inst Microbiol imeni Acad D. K. Zabolotnyy, Acad Sci Ukrainian SSR

"Mikrobiologichniy Zhur" Vol XI, No 4, pp 5-24

Expts on the use of azotogen were carried out over large areas at sovkhozes in various oblasts of the Ukrainian SSR. Azotogen was found to be effective in improving yields. Azotogen prepd on the basis of the local azobacter strain K was more effective in expts. on wheat, corn, potatores, and sugar beets than that prepd with the std strain 53. More work should be done on the isolation of highly active azobacter strains from Ukrainian soils.

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, NH. H.

Bacteria, Aerobic

Influence of the rhizosphere of some agricultural plants on azotobacters. Mikrobiol. zhur. 12 no. 4, 1950

Monthly List of Russian Accessions, Library of Congress, August, 1952. UNCLASSIFIED.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Kh. G.

"The Influence of the Rhizospheres of Certain Agricultural Crops on Azotobacter, Report 1". Mikrobiol Zhur, Kiev, Vol. 12, No. 1, pp 67-81, 1950.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Kh. H.

Soils - Bacteriology

Influence of the rhizophere of some agricultural plants on azotobacters. Mikrobiol. zhur. 12 no. 4 (1950)

Monthly List of Russian Accessions, Library of Congress, August, 1952. Unclassified.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Kh.G.

Effect of the rhizosphere of some agricultural plants on Azotobacter. Report no.3:34-47 '51. (MLRA 9:9)

1. Iz otdela obshchey mikrobiologii (zav. otdelom - L.I.Rubenchik) Instituta mikrobiologii imeni akademika D.K.Zabolotnogo Akademii nauk USSR.

(RHIZOSPHERE MICROBIOLOGY) (AZOTOBACTER)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

RUBENCHIK, L.I.; SMALIY, V.T.; ZINOV'YEVA, Kh.G.; BEBSHOVA, O.I.

Activity of local Azotobacter strains from soils of the Ukrainian S.S.R. Mikrobiol.zhur. 13 no.2:3-20 '51. (MIRA 9:9)

1. Iz otdela obshchey mikrobiologii (zav. otdelom - L.I.Rubenchik) Instituta mikrobiologii imeni akademika D.K.Zabolotnogo Akademii nauk USSR.
(UKRAINE--AZOTOBACTER)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

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ZINOV'YEVA, Kh.G.

Effect of the rhizosphere of some agricultural plants on Azotobacter. Report no.2. Mikrobiol.zhur. 13 no.2:21-33 '51. (MIRA 9:9)

1. Iz otdela obshchey mikrobiologii (zav. otdelom - L.I.Rubenchik) Instituta mikrobiologii imeni akademika D.K.Zabolotnogo Akademii nauk USSR.

(RHIZOSPHERE MICROBIOLOGY) (AZOTOBACTER)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Kh.G.

Preparation of local azotobacterin. Mikrobiol.zhur. 15 no.2:85-86 '53. (MLRA 7:3)

(Fertilizers and manures) (Azotobacter)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZIKOV'YEVA, Kh.G.; MITRASOVA, Ye.V.; KANTOROVICH, R.M.; BONDARENKO, M.M.

Preservation of azotobacterin. Mikrobiol.zhur. 16 no.2:20-24 '54. (MLRA 8:5)

1. Z Institutu mikrobiologii AN URSR i Kiivs'kogo zavodu bakterial'nykh dobriv.
(AZOTOBACTER)
(FERTILIZERS AND MANURES)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Khristina Gavrilovna; BERSHOVA, Ol'ga Ippolitovna; RUBENCHIK, L.Y., vidpovidal'niy redaktor; POLYAKOV, M.I., redaktor vidavnitstva; KORMILO, M.T., tekhnichoskiy redaktor

[Azotobacterin and its use in Ukrainian collective farms] Azotobakteryn i ioho zastosuvannia v kolhospakh Ukrainy. Kyiv, Vyd-vo Akademii nauk URSR, 1956. 24 p. (MIRA 10:2)

1. Chlen-korrespondent Akademii nauk URSR (for Rybenchik)
(Azotobacter) (Soil inoculation)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, KH. G.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Kh.G.; TISHCHENKO, G.N.

Ways of increasing the effectiveness of azotobacterin given to potatoes in the Ukrainian Plesye. Mikrobiol. zhur. 18 no.3:25-29 '56. (MLRA 9:10)

1. Z Institutu mikrobiologii Akademii nauk URSR ta Kiivs'koi s.-g. stantsii VNDISP.
(POLESYE--POTATOES) (AZOTOBACTER)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Kh.G. [Zinov'ievu, Kh.H.]; KLYUSHNIKOVA, T.M.

Synthesis of vitamins by the cultures of Azotobacter chroococcum adapted to some farm crops. Mikrobiol. zhur. 24 no.6:26-31 '62 (MIRA 17:5)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Kh.G. [Zinov'ieva, Kh.H.]

Azotobacter of turf-Podzolic soils of Polesye in the Ukrainian S.S.R. Mikrobiol.zhur. 26 no.6:3-9 '64. (MIRA 18:8)

1. Institut mikrobiologii i virusologii AN UkrSSR.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Kh.G. [Zinov'ieva, Kh.H.]

Scientific and methodological conference on bacterial fertilizers. Mikrobiol. zhur. 25 no.1:74 '63. (MIRA 17:5)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZIHOV'YEVA, Khristina Gavrilovna; VLASYUK, P.A., akademik, red.; DZNATENKO, A.I., red.; KVITKA, S.P., tekhn. red.

[Azotobacter and farm plants]Azotobakter i sel'skokhozyaistvennye rasteniia. Kiev, Gos.izd-vo sel'khoz.lit-ry, USSR, 1962. 178 p. (MIRA 16:3)

(Azotobacter) (Field crops)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Kh. G., Doc Biol Sci -- (diss) "Inter-relations of nitrogen bacteria with higher plants." Kiev, 1960. 43 pp; (Academy of Sciences Ukrainian SSR, Division of Biological Sciences); 300 copies; price not given; list of author's work at end of text (17 entries); (KL, 22-60, 134)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

1. ZINOV'YEVA, KH. G.

2. USSR (600)

7. "The Effect of the Rhizosphere of Certain Agricultural Plants on Azotobacter. Report II-III", Mikrobiolog. Zhurnal, Vol 13, No. 2, 1951, pp 21-33 and 34-47.

9. Mikrobiologiya, Vol XXI, Issue 1, Moscow, Jan-Feb 1952, pp 121-132, Unclassified.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZIOV'EVA, Kh. G.

USSR/Cultivated Plants - Potatoes, Vegetables, Melons. M-3

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10845

Author : Ziov'eva, Kh.G., Volkova, F.E.
Inst : -
Title : Use of Azotobacterin in Turf-Humus Pot Cultivation of Tomatoes.

Orig Pub : Nikrobiol. zh., 1957, 19, No 2, 62-63

Abstract : No abstract.

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Kh.G.

Effect of root secretions and root extracts of some agricultural plants on Azotobacter [with summary in English]. Mikrobiologiia 27 no.1:75-81 Ja-F '58. (MIRA 11:4)

1. Institut mikrobiologii AN USSR, Kiyev.
(AZOTOBACTER) (RHIZOSPHERE MICROBIOLOGY)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, KH. G.

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AZOTOBAKTERIN I YOGO ZASTOSUVANNYA V KOLGOSPAKH UKRAYINI [AZOTOBAKTERIN (NITRIC GERMICIDE) AND ITS UTILIZATION IN UKRAINIAN COLLECTIVE FARMS, BY] KH. H. ZINOV'YEVA I O.I. BERSHOVA. KYYIV, VYD-VO AKADEMIYI NAUK UKRAYINS'-KOYI RSR, 1956.

24 P. ILLUS., TABLES.

AT HEAD OF TITLE: ADADEMIYA NAUK UKRAINSKOY SSR. RADA NAUKOVO-TEKHNI-CHNOYI PROPAHANDY.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Kh.G.

Enzymatic activity of Azotobacter chroococcum cultures adapted to different field crops. Mikrobiol.zhur. 19 no.4:22-29 '57. (MIRA 11:1)

1. Z Institutu mikrobiologii AN URSR.
(AZOTOBACTER) (ENZYMES)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, Kh.G.; VOLKOVA, F.Ye.

Applying azotobacterin to tomatoes raised in peat-humus pots. Mikrobiol.zhur. 19 no.2:62-63 '57. (MLRA 10:9)

1. Z Instituta mikrobiologii AN URSR.
(TOMATOES) (AZOTOBACTER)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

The second sound in He II under higher pressures. V. P. Pushkov and K. N. Zinov'eva. *Zhur. Eksptl. Teoret. Fiz.* (J. Exptl. Theoret. Phys.) 18, 438-42(1948); cf. *C.A.* 41, 2214.—The velocity u of the "second sound" was detd., essentially by the same resonance method as described previously, over the whole range of existence of He II, from the pressure of the satd. vapor to the pressure of freezing or transition to He I, and from the λ-line down to about 1.3°K. The results are represented by families of isobars (2.7-27 atm.) and of isotherms (1.42-2.185° K.). The isobars, of a shape similar to the vapor pressure curve, show a max. which shifts to lower temps. as the pressure increases; the line passing through the maxima runs parallel to the λ-line along which $u = 0$. The isotherms fall uniformly with the pressure, down to $u = 0$ at the λ-line. In the temp. range of freezing of He II, u decreases with the pressure the slower, the lower the temp., and, at the point of disappearance of the second sound, has a finite value which increases continuously in the direction of lower temps. The uncertainty in u is estd., on the av., to 2%. The λ-line and the fusion line, detd. by this method, are in good agreement with Keesom and Keesom (*C.A.* 30, 7160[illegible]). N. Thon

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, K. N.

ZINOV'YEVA, K. N. -- "Investigation of the Properties of Second Bound." Sub 8 Mar 52, Inst of Physical Problems imeni S. I. Vavilov, Acad Sci USSR. (Dissertation for the Degree of Candidate in Physicomathematical Sciences).

SO: Vechernaya Moskva January-December 1952

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

USSR/Physics - Liquid He-3

FD-3281

Card 1/1 Pub. 146 - 40/44

Author : Zinov'yeva, K. N.

Title : Surface tension of liquid He-3 in the region of superlow temperatures (1.00-0.35°K)

Periodical : Zhur. eksp. i teor. fiz., 29, No 6(12), Dec 1955, 899-901

Abstract : The author had already (ibid., 28, 125, 1955) reported measurements on the surface tension of liquid He-3 in the interval of temperatures from critical to 0.93°K by the method of capillary ascent. In the present communication she presents measurements down to lower tem-

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, K.N.

D-5

USSR / Physics of Low Temperatures.

Abs Jour : Ref Zhur - Fizika, No 4, 1957, No 9044

Author : Zinov'yeva, K.N.
Institut : Institute of Physical Problems, Academy of Sciences USSR
Title : Coefficient of Volume Absorption of the Second Sound and Viscosity of Normal Component of Helium II to 0.83° K.

Orig Pub : Zh. eksperim. i teor. fiziki, 1956, 31, No 1, 31-36

Abstract : An investigation is made of the absorption of second sound, described earlier (Referat Zhur - Fizika, 1956, 6715) extended toward lower temperatures (down to 0.83° K) and toward higher frequencies (200 -- 4,000 cycles). The procedure used in this investigation is the same as in the previous one. The substitution of glass reflectors for the plexiglass reflectors used in the ends of the resonators has improved considerably the frequency characteristic of the resonators and made it possible to get rid of the effect of transverse resonances (at $\omega \sim 2$ -- 4 kc) on the

Card : 1/2

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

USSR / Physics of Low Temperatures.

D-5

Abs Jour : Ref Zhur - Fizika, No 4, 9044

Abstract : measured attenuation of second sound for longitudinal resonances. At $T < 1.3^{\circ}$ K, the absorption was independent of the length of the resonators, which indicates that in practice there are no edge losses. The usual method was used to separate the surface and volume absorptions. The surface absorption is used to calculate the normal viscosity η_n of helium II, which turned out to be in good agreement with measurements carried out with a rotary viscosimeter (Ref Zhur Fiz, 1956, 13119). Using the resultant values of η_n, the author establishes that part of the volume absorption, caused by η_n, is one order of magnitude smaller than the total absorption. Neglecting this portion, and also the portion connected with the second viscosity, the author determines the values of the kinetic coefficient $\varkappa$, which is the analogue of the heat conductivity. The resultant experimental curves for $\eta_n(T)$ and $\varkappa(T)$ are in good agreement with results of theoretical calculations (see I.M. Khalatnikov, Zh. eksperim. i teor. fiziki, 1952, 23, 8,21).

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOVIEVA, K.N.

AUTHOR PESHKOV, V.P., ZINOWYEVA, K.N., 56-5-50/55

TITLE Visual Observation of the "Stratification" of a He^3-He^4 Solution. (Vizual'noye nablyudeniye rasslqeniya rastvorov He^3-He^4. Russian)

PERIODICAL Zhurnal Eksperim.i Teoret.Fiziki, 1957, Vol 32, Nr 5, pp 1256-1257 (U.S.S.R.)

ABSTRACT In a transparent Dewar vessel of 3 cm^3 capacity pumped of He^3 vapors were caused to condense for the purpose of producting the lowest possible temperatures. A glass ampule with 200mm^3 capacity (ϕ = 3,5 mm, height = 20 mm) which was connected with a thin-walled steel capillary (ϕ = 0,5 mm) was dipped into the Dewar vessel in such a manner that the capillary tube protruded beyond the level of the liquid in the Dewar vessel. A gaseous He^3-He^4 mixture condensed through the capillary tube in the glass ampule in such a manner that a distinct meniscus was formed. At 1,1°K only a homogeneous transparent liquid was visible in the ampule. At a temperature of 0,81±0,01°K (He^3-vapor pressure 3 mm torr) a thin layer with a strictly defined horizontal boundary surface formed in the surface of the liquid. With a further reduction of the temperature to 0,5°K the boundary surface was conserved and could not even be influenced by shaking the ampule. With an increase of temperature this boundary surface disappeared again completely at more than 0,81°K.

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Visual Observation of the "Stratification" of a He^3-He^4 Solution. 56-5-50/55

ASSOCIATION Institute for Physical Problems of the Academy of Sciences of the U.S.S.R.
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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

AUTHOR: Zinov'yeva, K. N. SOV/56-34-3-11/55

TITLE: The Viscosity of Liquid He^3 in the range 0,35-3,2°K and of He^4 Above the λ Point (Vyazkost' zhidkogo He^3 v intervale 0,35-3,2°K i He^4 vyshe λ-tochki)

PERIODICAL: Zhurnal Eksperimental'noy i Teoreticheskoy Fiziki, 1958, Vol. 34, Nr 3, pp. 609-615 (USSR)

ABSTRACT: First the author shortly reports on earlier works dealing with the same subject. The viscosity of liquid He^3 was measured by means of the method of the capillary viscosimeter, and all measurements were carried out with 2 thickwalled glass--capillaries with an external diameter of 4-5 mm. The measur- apparatus is described by means of a diagram and subsequently the author shortly reports on the measuring process. The formula used for the computation of the viscosity coefficient is put down. A diagram shows the results of the measurement carried out with 2 capillaries; it is dealing with the dependence of the viscosity on temperature. Another diagram shows the same dependence in logarithmic representation. The absolute values of the viscosity coefficients were determined

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The Viscosity of Liquid He^3 in the range 0,35-3,2°K SOV/56-34-3-11/55
and of He^4 Above the λ Point

within the range above 1°K with an accuracy of ± 5%, and at lowest temperatures with an accuracy of ± 10%. The mean values of the viscosity coefficient are listed in a table. Within the temperature interval of from 1-3,2°K the viscosity slightly increases with dropping temperature from $1.6 \cdot 10^{-5}$ to $2.32 \cdot 10^{-5}$ Poise, which agrees qualitatively with one of the variants of the theory by Abrikosov and Khalatnikov. At temperatures below 1°K η increases abruptly and reaches the value of $4.8 \cdot 10^{-5}$ Poise at T = 0,35°K. The temperature dependence of η within the interval 1.1-0.5°K is approximately by the formula $1/\sqrt{T}$ described, and only below 0,5°K the dependence becomes steeper, but still not yet as steep as the dependence $1/T^2$ predicted by theory. Measurements within the immediate reach of the critical point could not be made by the author. In order to check the method of measurement the author simultaneously measured with the viscosity of He^3 also the viscosity of He^4 in the range of temperatures above the λ point; the results obtained with two capillaries are shown in a diagram. The mean values of the viscosity coefficients are listed in a table. The results of the measurements discussed coincide with the measurements by R. Bowers and K. Mendelsohn

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(reference 13) within the error limits as regards the absolute values, but instead of the monotonous increase the author here observed a slight decrease beginning with the temperature 2.8°K. The reasons for this difference are shortly pointed at. The temperature course of the viscosity of He I by the way, does not differ from the temperature course of ordinary liquids (with the exception of the range situated near the λ point). There are 5 figures, 2 tables, and 15 references, 6 of which are Soviet.

ASSOCIATION: Institut fizicheskikh problem Akademii nauk SSSR (Institute for Physical Problems AS USSR)

SUBMITTED: October 21, 1957

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

24(8) SOV/56-36-4-11/70

AUTHORS: Peshkov, V. P., Zinov'yeva, K. N., Filimonov, A. I.

TITLE: He^3 Cryostats (Kriostaty s He^3)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 36, Nr 4, pp 1034-1037 (USSR)

ABSTRACT: For investigations at low temperatures (1 - 4.2°K) cryostats with He^4 are generally used. However, as the latter becomes superfluid already at 2.18°K, it is difficult, by means of such devices, to get near to absolute zero. A record achievement was attained by means of such a He^4-cryostat by Keesom (Leiden, 1932, Ref 1) with 0.71°K with the aid of a strong pump (pumping capacity 675 l/sec); Lazarev and Yesel'son (Ref 2) were able to attain the same value by means of a much weaker pump (15 l/sec). In the present paper the authors describe work carried out with cryostat devices operating with He^4 and He^3, which are able to attain and to maintain temperatures of up to 0.3°K. These devices are at the Institut fizicheskikh problem (Institute for Physical Problems). Use of the

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very rare isotope He^3 was found to be necessary, because at such low temperatures He^3 is not yet superfluid and therefore pumping out helium vapors presents no difficulties. Figure 1 is a schematical representation of the first device. In principle, the cooling vessel consists of a double Dewar vessel containing He^4; in its interior there is a second Dewar vessel, which contains 3 cm^3 of liquid He^3. Sucking off of the vapors is carried out by means of a thin-walled steel tube which is connected by means of a copper connecting piece with the Dewar vessel, by means of a mercury diffusion pump DRN-50 (30 l/sec) operating with a counterpressure of 25-30 torr.

Owing to the low temperature of the He^4-surrounding, this pump is able to operate without a pre-vacuum. The lowest temperature attainable by means of this device is about 0.3°K (p = 0.002 torr). Temperature measurement is carried out by means of a resistance thermometer (30μ phosphor-bronze wire) which had been previously gauged at He^3-vapor pressure. (Pressure measurement by means of a MacLeod manometer). If a regular supply of liquid He^3 is maintained, the device may be kept in operation for 8 - 10 hours with one and the same fil-

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SOV/56-36-4-11/70

He^3 Cryostats

ling of gaseous He^3 (about 3 l). If the pumps are disconnected, the He^3 liquid increases within 3 hours from 0.3 to 1°K. The second model is, in principle, similar to the first (Fig 1b), the different construction of the cooling vessel is shown by figure 2. The mechanical Tepler-pump (mercury operating as a pre-vacuum pump was replaced in device 2 by an oil pump of the type NVG-2 developed at the NIVI. The He^3-vapors were also sucked off by means of a mercury diffusion pump which, in this case, however, worked with the pre-vacuum pump NVG-2. By means of this device it is possible to attain up to 0.35°K, by continuous operation 0.5°K. Temperature measurement was carried out as in the case of device 1. The two devices are described with all details by the present paper. There are 2 figures and 6 references, 3 of which are Soviet.

ASSOCIATION: Institut fizicheskikh problem Akademii nauk SSSR (Institute for Physical Problems of the Academy of Sciences, USSR)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

5(4) SOV/56-37-1-5/64

AUTHORS: Zinov'yeva, K. N., Peshkov, V. P.

TITLE: Phase Diagram of Liquid He^3-He^4 Solutions (Fazovaya diagramma zhidkikh rastvorov He^3-He^4)

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, 1959, Vol 37, Nr 1, pp 33-37 (USSR)

ABSTRACT: Following an earlier paper (Ref 1), the authors report further investigations of the phase diagrams of He^3-He^4-mixtures, of the temperature course of the curve of λ-transitions in such mixtures, and of the phase separation curve for solutions with high He^3-concentration. All measurements were carried out by means of visual observation. The device with which the authors operated is described in detail; its inner part, which consists essentially of a double-walled Dewar vessel, is shown by figure 1. A Dewar vessel with liquid He^4 contains a transparent Dewar vessel with liquid He^3; the latter contains a glass ampoule, into which a condensed He^3-He^4 mixture is introduced from above through a long steel capillary tube. The temperature of the mixture in the glass

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ampoule is measured by means of a resistance thermometer and vapor pressure by means of a MacLeod manometer. Figure 2 shows the results obtained by measuring the λ-curve and the phase separation curve of the mixture. The data obtained by the authors, those obtained by Yesel'son, Bereznyak, Kaganov (Ref 4), as well as those obtained from reference 7, are located on continuous curves; the curve of reference 3 partly shows a certain deviation. The critical point for phase separation in this mixture became $T_{max}^{crit} = (0.88 \pm 0.01)^\circ$ K at a molar He^3-concentration $x = (64 \pm 1)$ % ($x = He^3/(He^3 + He^4)$[%]). The point of intersection between the λ-curve and the phase separation curve has the coordinates $T_\lambda^{crit} = (0.67 \pm 0.02)^\circ$ K and $x = (81 \pm 1)$ %. Above this point both phases are superfluid, and below it the He^3-rich phase is not superfluid. The measuring data obtained are given in a table for a multiple of x-values. Finally, the authors thank P. L. Kapitsa for his interest in this investigation, and N. I. Yakovleva for assisting in the measurements. There are 2 figures, 1 table, and 8 references, 3 of which are Soviet.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

Phase Diagram of Liquid He^3-He^4 Solutions SOV/56-37-1-5/64

ASSOCIATION: Institut fizicheskikh problem Akademii nauk SSSR (Institute of Physical Problems of the Academy of Sciences, USSR)

SUBMITTED: February 3, 1959

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

24(8),21(5),5(4)

AUTHORS: Peshkov, V. P., ~~Zinov'yeva, K. N.~~ SOV/53-67-2-1/7

TITLE: Experimental Work With He^3 (Eksperimental'nyye raboty s He^3)

PERIODICAL: Uspekhi fizicheskikh nauk, 1959, Vol 67, Nr 2, pp 193-242 (USSR)

ABSTRACT: In the present paper the authors give a very detailed survey, which was compiled from more than 100 Soviet and Western publications, on the production and investigation of He^3 and on its properties. This survey is of particular value because of the numerous and most recent data it contains, which are clearly shown by several tables. The following problems are dealt with individually: The methods of separating He^3 (three tables, some of which extend over several pages, contain data concerning the dependence of vapor pressure on the temperature for various compositions of the liquid phase, the dependence of output condensation pressure on the temperature for mixtures with different He^3-content, the He^3-distribution between vapor and liquid for different compositions of the liquid phase and various temperatures); the pressure of saturated vapor and the determination of the critical point (a table gives He^3 vapor pressure for low temperatures ~0.30°K to 3.30°K in steps of

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0.01°K); the thermonuclear pressure differences in He^3 (Table 6), the melting-point curve and the phase transitions of solid He^3 (Figs 8-11, Tables 7, 8); the density of liquid, vaporous, and solid He^3 (Tables 9, 10); evaporation heat (Fig 14 and Table 11); specific heat (figure 15 shows temperature dependence up to 2.0°K of the specific heat of liquid He^3 under saturated steam; experimental and theoretical curves are compared; figure 16 shows the molar heat capacity of liquid He^3 between 0.10 and 0.75°K at a pressure of 120-150 torr); the entropy (Figs 17, 18, 19); the magnetic properties of He^3 (contrary to He^4, the He^3 atom has a magnetic moment that is different from zero, $1.07 \cdot 10^{-23}$ CGS units, and a spin 1/2, and therefore it is characterized by a number of special interesting features which are discussed); the absence of superfluidity; viscosity (figures 24 and 25 show viscosimeters, table 13 contains data on the temperature range of between 0.35 and 3.2°K in different intervals, figure 26 shows the corresponding diagram, figure 27 the dependence of the η-value for gaseous He^3 and He^4 on temperature). Further chapters deal with thermal conductivity, the temperature jumps of He^3 on its boundary with a solid, surface tension (diagram in Figure 31, range 0.25 - 3°K),

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the measurement of the velocity of sound (figure 32 shows a measuring apparatus according to reference 101, figure 33 the temperature diagram in liquid He^3, table 14 contains data for u(T), the compressibility of He^3 (figure 34 - isothermal compressibility of liquid He^3, figure 35 - adiabatic compressibility, the adsorption of He^3 on active carbon). The following chapter discusses several types of kyrostats and the last chapter discusses the possibility of attaining deep crystallization temperatures for He^3 (Pomeranchuk, Ref 46). The following Soviet scientists are mentioned: B. N. Yesel'son, B. G. Lazarev, N. G. Bereznyak, M. I. Kaganov, T. P. Ptukha, V. M. Kuznetsov, N. Ye. Alekseyevskiy, V. N. Kachinskiy, L. D. Landau, I. M. Khalatnikov, A. A. Abrikosov, K. N. Zinov'yeva, A. I. Filimonov and I. B. Danilov. There are 40 figures, 15 tables, and 110 references, 27 of which are Soviet.

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24(0)

AUTHOR: Chantsov, R. SOV/55-67-4-7/7

TITLE: The Fifth All-Union Conference on the Physics of Low Temperatures (5-ye Vsesoyuznoye soveshchaniye po fizike nizkikh temperatur)

PERIODICAL: Uspekhi fizicheskikh nauk, 1959, Vol 67, Nr 4, pp 745-750 (USSR)

ABSTRACT: This Conference took place from October 27 to November 1 at Tbilisi; it was organized by the Otdeleniye fiziko-matematicheskikh nauk Akademii nauk SSSR (Department of Physico-mathematical Sciences of the Academy of Sciences, USSR), the Akademiya nauk Gruzinskoy SSR (Academy of Sciences, Georgian SSR), and the Tbilisskiy gosudarstvennyy universitet im. Stalina (Tbilisi State University imeni Stalin). The Conference was attended by about 300 specialists from Tbilisi, Moscow, Khar'kov, Kiyev, Leningrad, Sverdlovsk, and other cities as well as by a number of young Chinese scientists at present working in the USSR. About 50 lectures were delivered which were divided according to research fields. - I. Liquid Helium. Reports were delivered by the researchers of the Laboratoriya nizkikh temperatur TGU (Laboratory for Low Temperatures of Thilisi State University) under the supervision of E. L. Andronikashvili: P. S. Tsakadze, Yu. G. Mamaladze and S. G. Matinyan spoke about the investigation of the damping of rotational oscillations of a single disk in He II in dependence on the rotation rate. G. A. Ganiganidze spoke about the influence exercised by the state of the disk surface on critical rate and on the damping of its oscillations in the transcritical range. V. P. Peshkov (IFP AN SSSR - Institute for Physical Problems AS USSR) spoke about further investigations of the boundary between superfluid and non-superfluid helium (discovered by himself) in a heat flow. This boundary characterizes the density- and temperature jump. Kwang, Wei-yen, K. N. Zinov'yeva and V. P. Peshkov spoke about investigations at ~~difficult low~~ temperatures (down to 0.5°K) which were attained by the method of the evacuation of He^3-vapors. Kwang, Wei-yen investigated in the interval 0.57 - 2.07°K the phenomenon of the temperature jump (discovered by P. L. Kapitsa in 1941) on the boundary of a solid (in this case Cu) by means of He II: for the thermal resistance not the T^3-law but a T^n-law holds, where $n=2.6\pm0.1$. Zinov'yeva and Peshkov investigated, among other things, also the phase diagram of He^3 dissolved in He^4 (20 - 87%). V. L. Ginzburg (FIAN) gave a report on the phenomenological theory of He II in the region of the λ-point in consideration of quantum effects (the theory was developed by himself and by L. P. Pitayevskiy). B. T. Geylikman (IAE AN SSSR - Institute for Atomic Energy, AS USSR) delivered a short report on the theory of phase transition in liquid He^4. I. M. Lifshits and D. G. Samikidze (KhFTI AN USSR - Khar'kov Physico-technical Institute AS UkrSSR) investigated the melting of solid He^3 on the basis of Landau's theory of the Fermi-fluid and found that melting pressure as a function of temperature has a minimum at 0.5°K (Pomeranchuk-effect). The comprehensive discussion was held under the supervision of P. L. Kapitsa.

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K. N. Zinov'yeva

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L 13612-63 EWT(1)/EWP(q)/EWT(m)/BDS AFFTC/ASD

ACCESSION NR: AP3003[illegible] S/0056/63/044/006/1837/1846

AUTHOR: Lilov'yeva, K. N.

60
55

TITLE: [illegible]

SOURCE: Zhurnal eksper. i teor. fiziki, v. 44, no. 6, 1963, 1837-1846

TOPIC TAGS: liquid helium, [illegible]

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ACCESSION NR: AP3003108

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

SUBMITTED: 17Jan63 DATE ACQ: 23Jul63 ENCL: 02

SUB CODE: 00 NO REF SOV: 005 OTHER: 006

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

YUR'YEV, Yu. K., VENDEL'SHTEYN, ZINOV'EVA, L. A.

Pyrrolidones

Transformation of butyrolactone into α-pyrrolidone and N-phenyl- α-pyrrolidone. Uch. zap. Mosk. un., No. 132, 1950.

9. Monthly List of Russian Accessions, Library of Congress, October 1953. 2 Unclassified.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

YUR'YEV, YU. K.; VENDEL'SHTEYN, YE. G.;
ZINCV'YEVA, L. A.

Lactones

Part 35. Conversion of butyrolactone to thiophanon purrolidone-2 and 1-phenylpyrrolidone-2. Zhur. ob khim. 22, 84, No. 3, 1952. Laboratoriya Organicheskoy Khimii im. N. D. Zelinskogo Moskovskogo Ordena Lenina Gosudarstvennogo Universiteta.

Monthly List of Russian Accessions, Library of Congress, August 1952. UNCLASSIFIED.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

15-57-3-4013

Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 3, p 211 (USSR)

AUTHOR: Zinov'yeva, L. A.

TITLE: Methods of Hydrodynamic Calculations of the Gas Factor in Oil Fields Using Gas Lift for Extraction (Metodika gidrodinamicheskikh raschetov gazovogo faktora neftyanykh mestorozhdeniy, ekspluatiruyushchikhsya v usloviyakh rezhima rastvorennogo gaza)

PERIODICAL: Tr. Vses. neftegaz. n.-i. in-ta, 1956, Nr 8, pp 323-332.

ABSTRACT: Bibliographic entry

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

YUR'YEV, Yu. K., VENDEL'SHTEYN, ZINOV'EVA, L. A.

Pyrrolidones

Transformation of butyrolactone into -pyrrolidone and N-phenyl - pyrrolidone, Uch. Zap. Mosk. un. , No. 132, 1950.

9. Monthly List of Russian Accessions, Library of Congress, October 1952, Uncl.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA L.A.

AFANAS'YEVA, A.V.; ZINOV'YEVA, L.A.

Simultaneous oil field exploitation and gas collection from gas cap. Neft. khoz. 35 no.10:44-51 O '57. (MIRA 11:1)
(Gas, Natural) (Petroleum engineering)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, L. A.

"Influence of the Properties of Stratal Petroleums on Flow Toward the Wells in Dissolved Gas Conditions." Cand Tech Sci, All-Union Sci-Res Petroleum Gas Inst, Moscow, 1954. (KL, No 2, Jan 55)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, L.A.

Approximation method of calculating the flow of gas-saturated oil to wells taking into consideration the tangible properties of oil sands. Trudy VNII no.6:254-269 '54. (MLRA 9:1)
(Fluid dynamics) (Petroleum engineering)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, L. A.

Analysis of the Influence of Some of the Properties of Stratified Petroleum on the Process of Its Filtration in Conditions of a Dissolved Gas Regime

The author investigates the radial filtration of aerated petroleum, taking into account the dependence of the viscosity of the petroleum on the pressure, the nonlinearity of the law of solubility of gas in petroleum, and the shrinkage of the petroleum during degasification. She considers the influence of each of these factors separately and in combination, and discusses their effect on the yield of petroleum. (RZh-Mekh, No. 6, 1955) Tr. Vses. Neftegaz. n.-i. in-ta, No. 6, 1954, 240-253

SO: Sum. No. 744, 8 Dec 55 - Supplementary Survey of Soviet Scientific Abstracts (17)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, L.A.

Hydrodynamic calculations of the gas factor of oil pools producing with dissolved-gas drive. Trudy VNII no.8:323-332 '56.
(MLRA 9:12)

(Fluid dynamics) (Petroleum engineering)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ROZENBERG, M.D.; ZINOV'YEVA, L.A.; KLYAROVSKIY, G.V.

Method for hydrodynamic calculations of casinghead gas recovery in dissolved gas drives. Trudy VNII no.10:257-265 '57.

(MIRA 14:6)

(Gas, Natural)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZIKOV'YEVA, L.A.

Biology and ecology of robber flies (Diptera, Asilidae) in the Karyn Sands. Ent. obozr. 38 no.3:554-567 '59. (MIRA 13:1)

1.Moskovskiy lesotekhnicheskiy institut, Moskva.
(West Kazakhstan Province--Robber flies)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

SOV/124-58-2-2021

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 2, p 75 (USSR)

AUTHORS: Rozenberg, M. D., Zinovyeva, L. A., Klyarovskiy, G. V.

TITLE: Hydrodynamic Calculation Methods Relative to the Recovery of the Gas Content of a Petroleum, When the Gas Occurs in Solution (Metodika gidrodinamicheskikh raschetov dobychi poputnogo gaza pri rezhime rastvorennogo gaza)

PERIODICAL: Tr. Vses. neftegaz. n.-i. in-ta, 1957, Nr 10, pp 257-265

ABSTRACT: Presentation of a calculation method relative to the recovery of gas appearing in deposits in dissolved form, starting from the prescribed (time) rate of withdrawal of the petroleum; the proposed method employs the petroleum-balance equation and a condition which connects the mean petroleum saturation within the reservoir and the mean pressure, which varies as the recovery process progresses. This condition is obtained as a result of the numerical integration of the relationship between the values of the averaged petroleum saturation and the pressure, as supplied in a work by M. D. Rozenberg [Rozenberg, M. D., K raschetam istoshcheniya neftyanykh mestorozhdeniy pri rezhime rastvorennogo gaza (On

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Hydrodynamic Calculation Methods Relative to the Recovery (cont.)

the Calculations of the Depletion of Petroleum Deposits in the Presence of Dissolved Gas). Tr. Vses. neftegaz. n.-i. in-ta, 1957, Nr 10, pp 250-256; RZhMekh, 1958, Nr 2, abstract 2020]. The authors provide a numerical sample calculation for the determination of the recovery of the gas and adduce concepts relative to the verification and correction of such calculations with reference to production-measurement data.

V. A. Arkhangel'skiy

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, L. A.; KETOVA, Yu. V.

Chufa

Chufa in the Molotov Botanical Garden. Biul. Glav. bot. sada No. 10, 1951.

Monthly List of Russian Accessions, Library of Congress, December 1952. Unclassified.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, L. A.

"Harmful and Beneficial Soil Entomofauna of the Extreme South-eastern Area of the European USSR." Cand Biol Sci, Moscow Order of Lenin State U imeni M. V. Lomonosov. (RZhBiol, No 1, Sep 54)

SO: Sum 432, 29 Mar 55

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, L.A.; RAFES, P.M.

Influence of the character of plants and the soil-developing process on the colonization of soils by cockchafers in the Naryn Sands. Zool.zhur. 33 no.5:1081-1091 S-O '54.(MLRA 7:11)

1. Kafedra entomologii MGU im. M.V.Lomonosova i Institut lesa Akademii nauk SSSR.
(Naryn Sands--Cockchafers) (Cockchafers--Naryn Sands)
(Naryn Sands--Ecology) (Ecology--Naryn Sands)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZIKOV'YEVA, L.A.

Soil fauna in different forest types of the White Russian Polesye. Zool.zhur. 34 no.5:965-974 S-O '55. (MLRA 9:1)

1.Kafedra entomologii Moskovskogo gosudarstvennogo universiteta imeni M.V.Lomonosova.
(Polesye--Soil fauna)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

VORONTSOV, Aleksey Ivanovich, dotsent; ZINOV'YEVA, Lyubov' Afanas'yevna, kandidat biologicheskikh nauk; SERGEYEVA, [redacted]; KHRAMTSOV, N.N., redaktor; SVETLAYEVA, A.S., redaktor izdatel'stva; BACHURINA, A.M., tekhnicheskiy redaktor

[Manual on forest protection for laboratory and practical exercises] Posobie po lesozashchite dlia laboratorno-prakticheskikh zaniatii. Moskva, Goslesbumizdat, 1956. 84 p. (MLRA 10:2)
(Forest protection)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, L.A.

New genus of robber flies (Diptera, Asilidae) from Kazakhstan and Central Asia. Ent.obozr.35 no.1:196-200 '56. (MLRA 9:10)

1.Kafedra entomologii Moskovskogo Gosudarstvennogo universiteta, Moskva.

(Soviet Central Asia--Robber flies)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOVYEVA, L.A.

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AFANASIEVA, A.Y., BAISHEV, B.T., VORISOV, YU.P., VASILIEVA, V.N., VOINOV, V.V., ZINOVIEVA, L.A., KAMENETSKIY, S.O., MAKISOV, M.I., MAKISOV, M.M., MAYDEBOR, V.N., NOVIKOV, I.P., SOKOLOVSKIY, E.V., SUSHILIN, V.A., YAKOVLEV, V.P.

Problem of developing oil in the USSR

Report to be submitted for the Sixth World Petroleum Congress Frankfurt, 16-26 June 63

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, L.A.

PHASE I BOOK EXPLOITATION SOV/5153

Garmonov, I.V., and B. S. Kortkevich, Resp. eds.

Sintez monomerov dlya proizvodstva sinteticheskogo kauchuka (Synthesis of Monomers for the Production of Synthetic Rubber) Leningrad, Goskhimizdat, 1960. 250 p. Errata slip inserted. 4,500 copies printed.

Sponsoring Agencies: Gosudarstvennyy komitet Soveta Ministrov SSSR. Upravlenie SK i neftekhimii. Giprokauchuk i VNIISK.

Eds.: S.A. Lomis and Ya. I. Shur; Tech. Ed.: T.A. Pomkina.

PURPOSE: This book is intended for scientists, engineers, and technicians working in the synthetic rubber, plastics, and petroleum refining industries, and in scientific research institutes affiliated with these industries.

COVERAGE: The book contains articles which report on research carried out at the Nauchno-issledovatel'skiy institut sinteticheskogo kauchuka imeni Akademika S.V. Lebedeva (Scientific Research Institute for Synthetic Rubber imeni Academician S.V. Lebedev) and the Gosudarstvennyy proyektnyy i nauchno-issledovatel'skiy institut promyshlennosti sinteticheskogo kauchuka (State Scientific Research and Design Institute of the Synthetic Rubber Industry) in the synthesis of isoprene, styrene, acetylenes, acetaldehyde, and other initial products for synthetic rubber production. The articles also discuss methods of extracting these products from their preparatory media. No personalities are mentioned. References accompany individual articles.

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Morina, I.N., N.P. Vinogradova, M.V. Listopadov, and Ye.S. Starostina. Joint Production of Acetylene and Ethylene by the Pyrolysis of Hydrocarbons 197

Morina, I.N., N.P. Vinogradova, A.R. Davydov, N.S. Kornilova, L.I. Konetspol'skiy, M.V. Listopadov, Ye.S. Starostina, S.K. Chernyshova, and Ya.B. Shainskiy. Separation of Acetylene From Pyrolysis Gases by Absorption With Dimethyl Formamide 207

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

USSR/General and Specialized Zoology - Insects. Harmful Insects and Acarids. Forest Pests. P

Abs Jour : Ref Zhur Biol., No 6, 1959, 25480

Author : Zinov'yeva, L.A.

Inst : University of Forestry Engineering

Title : Application of Phosphorous Organic Insecticides in the Control of Forest Pests.

Orig Pub : Nauchn. dokl. vyssh. shkoly. Lesoinzh. delo, 1958, No 1, 43-46

Abstract : In laboratory experiments, all caterpillars (C) of the grey-brown brush moth perished from the application of 0.1% thiophos emulsion, but C of the gypsy moth of the 5-6th ages survived. 0.01% thiophos emulsion is effective against C of the oak prominent of the 4-5th ages, and 0.003% emulsion against C of the nun moth and gypsy moth

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

SOV/124-57-3-3297

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 3, p 95 (USSR)

AUTHOR: Zinov'yeva, L. A.

TITLE: A Method of Hydrodynamic Computation of the Gas-oil Ratio of Oil Deposits Being Exploited Under Conditions in Which the Gases are Dissolved in the Oil (Metodika gidrodinamicheskikh raschetov gazovogo faktora neftyanykh mestorozhdeniy, ekspluatiruyushchikhsya v usloviyakh rezhima rastvorennogo gaza)

PERIODICAL: Tr. Vses. neftegaz. n-i. in-ta, 1956, Nr 8, pp 323-332

ABSTRACT: A presentation of a method for the approximate computation of averaged (within the reservoir) values of oil saturation, the gas-oil ratio, and the yield of oil from deposits containing dissolved natural gas. An example is given illustrating the processing of industrial data for the purpose of evaluating the degree of accuracy of the gas-oil ratios which are obtained with the aid of calculations performed on the basis of averaged values of pressure and oil saturation. An evaluation of the averaged values of the factors indicated above, as well as of the time required to deplete the reservoir, would present great interest. The necessary data could be obtained from the solution of the respective equations contained in the article. V. A. Arkhangel'skiy

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APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

GLADYSHEVA, K.P.; ZINOV'YEVA, L.D.

Using thioacetamide in the complexometric determination of zinc and cadmium. Sbor.trud. VNIITSVETMET no.9:49-52 '65. (MIRA 18:11)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

YURASOVA, G.M.; ZINOV'YEVA, L.D.

Complexometric determination of barium in barite ores. Sbor.trud. VNIITSVETMET no.9:53-56 '65. (MIRA 18:11)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, L.D.; GLADYSHEVA, K.F.; ZELENINA, T.P.

Sulfur determination with the use of ion exchange chromatography. Sbor.trud. VNIITSVETMET no.9:118-119 '65.

(MIRA 18:11)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

GELENINA, T.P.; GLABYSHEVA, K.P.; ZINOV'YEVA, L.D.

Determining tin in tungsten products. Sbor.trud. VNIITSVETMET no.9:124-126 '65. (MIRA 18:11)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

CHUMAKOV, Yu.I.; MARTYNOVA, E.N.; ZINOV'YEVA, L.M.; KHIMCHENKO, T.V.

2,6-Dialkoxy-3-(1'-alkoxyalkyl)tetrahydropyrans and alkyl pyridines based on them. Zhur. ob. khim. 34 no.10:3511 O '64. (MIRA 17:11)

1. Kiyevskiy politekhnicheskiy institut.

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ACC NR: AT7005072 SOURCE CODE: UR/2546/66/000/154/0041/0046

AUTHORS: Khrabrov, Yu. D.; Zinov'yeva, L. M.

ORG: none

TITLE: Calculated prognosis of the H_{500} field for the subsequent synoptic period and the possibility for increasing its accuracy

SOURCE: Moscow. Tsentral'nyy institut prognozov. Trudy, no. 154, 1966. Vzaimodeystviye protsessov v stratosfere i troposfere i dolgosrochnyye prognozy pogody (Interaction of processes in the stratosphere and troposphere and long-range weather forecasting), 41-46

TOPIC TAGS: atmospheric model, synoptic meteorology, atmospheric interaction, computer calculation

ABSTRACT: A new method for calculation of H_{500} prognosis for the following synoptic period is being worked out in view of the unsatisfactory results obtained by applying the method of A. L. Kats, Yu. B. Khrabov, M. N. Fedulova, and O. M. Yakusheva (Prognoz srednikh znacheniy H_{500} na vekushchiy period i tendentsiyu sleduyushchego sinopticheskogo perioda s pomoshch'yu empiricheskikh funktsiy vliyaniya. Trudy TsIP, vyp. 119, 1962) involving the current configurations. The working formula developed is represented by the equation

$$(H)'_k = \sum_{i=1}^{10} A_{ki}(T_{500})'_i + \sum_{i=1}^{10} B_{ki}(\Delta T)_i + \sum_{1}^{4} C_k I'_\Sigma + \sum_{1}^{4} D_k I'_k,$$

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ACC NR: AT7005072

where k – point for which H' is calculated; i – 10 points for which forecasters T_{500} and ΔT are considered; $(T_{500})' - T_{500}$ deviation of the synoptic period tendencies from the average value for the given circulation type; $\Delta T - T_{500}$ difference between the first and second day of the synoptic period tendency; $(H)_k'$ – prognosis of the deviation from the norm of H_{500} in the future synoptic period. As a norm, one assumes the average value of H_{500} for a given type for many years; I_z – zonal circulation indices in 3 sectors of the northern hemisphere; I_M – meridional indices in the same sectors; A_{ki}, B_{ki}, C_k, D_k – weight coefficients (empirical effect functions). The calculations, performed by electronic computers, were repeated twice at 20 European and Asiatic stations. The accuracy of the obtained prognostic values was considerably improved when the strictly terrestial factors (temperature, wind, moisture distribution, etc) were qualitatively corrected by also introducing the effect of the bombardment of the earth's atmosphere by solar currents. This was particularly noticeable and important during the period of the passage of sunspots through the central meridian of the sun. Orig. art. has: 1 figure, 4 tables, and 2 equations.

SUB CODE: 04/ SUBM DATE: none/ ORIG REF: 005

Card 2/2

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, L.S.

Medical and industrial work fitness evaluation and employment in spondyloarthritis ankylopoietica. Ortop., travm. protez. 19 no.1: 48-50 Ja-F '58. (MIRA 11:4)

1. Iz TSentral'nogo nauchno-issledovatel'skogo instituta ekspertizy trudosposobnosti i organizatsii truda invalidov (dir. - prof. O.I. Sokol'nikov)

(SPONDYLITIS, ANKYLOSING
expert testimony & disability evaluation (Rus))
(EXPERT TESTIMONY
of ankylosing spondylitis (Rus))
(DISABILITY EVALUATION, in various dis.
ankylosing spondylitis (Rus))

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

OSTAPKO, K.I., kand.med.nauk; RED'KINA, G.I., starshiy inzhener; ZINOV'IEVA, L.S., vrach-ekspert

Work organization following kineplasty of the forearm and amputation of the shoulder. Ortop.,travm.i protez. no.10:49-52 '61. (MIRA 14:10)

1. Iz TSentral'nogo nauchno-issledovatel'skogo instituta ekspertizy trudosposobnosti i organizatsii truda invalidov (dir. - prof. D.I. Gritskevich).

(AMPUTEES--REHABILITATION)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, L.S.

Medical occupational evaluation in sequelae of injuries of the hand and fingers. Ortop. travm. i protez. 21 no. 10:26-31 '60.
(MIRA 14:1)

(HAND--WOUNDS AND INJURIES) (DISABILITY EVALUATION)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, L. S., MOGILEVSKIY, YA. A.

"Basic Hygienic Problems in the Study and Utilization of Subterranean Waters."

report submitted at the 13th All-Union Congress of Hygienists, Epidemiologists and Infectionists, 1959.

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, L. S.

PA 65T74

USSR/Medicine - Hygiene and Sanitation Apr 1948
Medicine - Water Supply

"Sixth Plenum of the Directors of the All-Union Scientific Research Engineering Society (VNITO) of Water Supply and Sanitary Engineering," L. S. Zinov'yeva, 2½ pp

"Gig i San" No 4

Convened in Gor'kiy 4-7 Dec 1947. Briefs proceedings and lists articles and papers presented for reading. One of the largest future tasks is to develop effective methods for purifying river waters.

65T74

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, L.S.

Examination of subterranean waters. Gig. i san. no.11:14-19 N '54. (MLRA 7:12)

1. Iz nauchno-issledovatel'skogo sanitarnogo instituta imeni Erismana.

(WATER SUPPLY
subterranean waters exam.)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

VLASHCHENKO, L.F.; NOVIKOV, V.M.; ZINOV'YEVA, M.M.; SIDOROVA, A.P.; KARDASHOVA, A.A.; KLEYMENOV, I.Ya.; KRASHOFOL'SKIY, N.M. [deceased]; LUKASH, Ye.G.; SAMOFALOV, P.Ye.; YASHINA, Ye.I.; KULIKOV, P.I., dots., retsenzent; MAKAROVA, T.I., kand. tekhn. nauk, retsenzent; MERENBURG, A.N., spets. red.; KOSSOVA, O.N., red.; SOKOLOVA, I.A., tekhn.red.

[Handbook for the technologist of the fishing industry] Spravochnik tekhnologa rybnoi promyshlennosti. Moskva, Pishchepromizdat. Vol.1. 1963. 589 p. (MIRA 17:3)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

41415

S/069/62/024/005/006/010
B106/B186

15.9130

AUTHORS: Lebedev, A. V., Mints, S. M., Rakhlin, P. I., Zinov'yeva, M. N.

TITLE: Effect of various factors on the low-temperature strength of synthetic latexes. 2. Effect of changes in the polymeric phase

PERIODICAL: Kolloidnyy zhurnal, v. 24, no. 5, 1962, 572 - 577

TEXT: The effect of the composition of the polymeric phase, of the plasticity of the polymer, and of changes of the polymer during storage on the low-temperature strength of synthetic latex was studied. The decrease in frost resistance ("aging") of latex on long storage can be delayed considerably by excluding oxygen or by adding antioxidants. A styrene content of more than 60% in the polymerization mixture of the monomers reduces the frost resistance of divinyl styrene latex. It was shown by the example of divinyl nitrile latex that latex produced with soaps of the molecular weight 190 as emulsifiers was, under otherwise equal conditions, more resistant to frost than latex produced with Nekal. Divinyl nitrile latex is much less frost-resistant than divinyl styrene

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

41434
S/069/62/024/005/005/010
B106/B186

15.4130

AUTHORS: Lebedev, A. V., Mints, S. M., Rakhlin, P. I., Zinov'yeva, M. N.

TITLE: Effect of various factors on the low-temperature strength of synthetic latexes. 1. Effect of changes in the aqueous phase

PERIODICAL: Kolloidnyy zhurnal, v. 24, no. 5, 1962, 565 - 571

TEXT: This paper is the first in a series of systematic studies on the freezing strength of rubber-like polymeric latexes such as СКС-30П (SKS-30P) and СКС-65ГП (SKS-65GP) as dependent on the compounding formula, polymerization conditions, and other factors. A quantitative method was worked out for determining the resistance of divinyl styrene latex to low temperatures. The percent content of dry coagulate in the latex polymer serves as a measure of resistance. Experiments with variation of single factors at otherwise equal conditions gave the following results: The frost resistance of latex depends on the nature of the cations and anions of the emulsifier; it decreases in the order of the cations $K^+ > Na^+ > NH_4^+$ and in the order of the anions paraffinate > Nekal > Dresinate (salt of disproportionate colophony). With addition of emulsifiers to the finished

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

latex, its frost resistance increases monotonously with the amount of emulsifier used in potassium and ammonium soaps, whereas it passes a maximum in the case of Nekal and sodium Dresinate (with 50-60% saturation of the adsorption layers). With the use of soaps of different molecular weights as emulsifiers, the frost resistance of latex decreases with the molecular weight increasing from 190 to 300. Additions of small amounts of univalent metal salts or of Leukanol to the aqueous phase slightly improve the frost resistance of latex; the effect of additions of non-ionic emulsifiers depends on the nature of the latex polymer and on the hydrophile-lipophile balance in the emulsifier. The frost resistance of latex is independent of its concentration, and increases with the pH of the aqueous phase. High resistance to frost is reached by introduction of ammonia, which facilitates transport and storage in winter. There are 4 figures and 5 tables. The most important English-language references are: H. W. Walker, J. Phys. Coll. Chem. 51, 451, 1947; R. J. Orr, Rubb. Plast Age 41, 1027, 1960; T. E. Daniels, W. H. Watson, F. C. White, Rubber and Plast. Age 40, 1057, 1959.

ASSOCIATION: Nauchno-issledovatel'skiy institut sinteticheskogo kauchuka im. S. V. Lebedeva (Scientific Research Institute of Synthetic Rubber imeni S. V. Lebedev)

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"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, M. T.

USSR/Medicine - Shock Jan/Feb 1948
Medicine - Blood

"Variations in Potassium, Calcium, and Chlorine Contents in the Blood Serum after Electric Shocks," M. T. Zinov'yeva, Chair of Pathol Physiol, First Leningrad Med Inst imeni Academician Pavlov, 5 pp

"Arkhiv Patol" Vol X, No 1

Experiments produced the following results due to electric shocks: 1) Increase in potassium content in the blood serum; content was higher in veins than in arteries and higher in rabbits than in dogs. 2) Increase in potassium content depended on the amount of potassium supplied by muscular tissues.

41T70

USSR/Medicine - Shock (Contd) Jan/Feb 1948

3) Chlorine content in the serum of the arterial blood altered irregularly; in the major part of the experiments, however, chlorine content in the serum of the venal blood increased. Submitted, 14 Jan 1947. Deputy of Chair of Pathological Physiology is Prof I. R. Petrov.

41T70

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

ZINOV'YEVA, N.F.

Change in the annual cycle of the development of lemons grown in trenches. Vop.biol.i kraev.med. no.3:92-97 '62. (MIRA 16:3)
(LEMON)

APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5"

"APPROVED FOR RELEASE: 07/16/2001 CIA-RDP86-00513R002065220018-5

S/598/61/000/006/002/034
D245/D303

AUTHORS: Lukashenko, E.Ye., Zinov'yeva, N.K., Terekhin, V.P. and Feofanov, L.P.

TITLE: The mechanism of magnesiothermal reduction and formation of titanium sponge in an industrial reactor

SOURCE: Akademiya nauk SSSR. Institut metallurgii. Titan i yego plavy. no. 6, 1961. Metallotermiya i elektrokhimiya titana, 14 - 20

TEXT: The authors carried out 6 experiments on the process using a reaction vessel enclosed in an industrial reactor and with $TiCl_4$ feed of 20, 30, 60, 80 and 95 % of that normally applied. The results show that the mechanism of the process can be regarded as in three stages. In the first ($TiCl_4$ consumption < 60 %) refined sponge and a thin lining form on the reactor wall. $TiCl_4$ reduction prevails on the mirror surface of the fused Mg. The reaction rate is rapid and the role of secondary reactions unimportant. In the second stage ($TiCl_4$ consumption < 80 %), Mg penetrates the pores

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